PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Rec'd PCT/PT9 23 MAR 2005

Applica PRD			gent's file reference	FOR FURTHER	RACTION	See Notifica Preliminary I	tion of Transmittal of Interna Examination Report (Form I	ational	
International application No. PCT/EP 03/10092				International filing date (day/month/year) F				Priority date (day/month/year)	
Interna G01N	133/		ent Classification (IPC) or	l both national classificat	ion and IPC				
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1. 7	This Auth	inter ority	national preliminary exa and is transmitted to the	amination report has e applicant according	been prepai to Article 3	red by this In 6.	ternational Preliminary E	xamining .	
2. Т	This	REP	ORT consists of a total	of 6 shoots includin	a this source	ahaat		7	
]	This bee (see	s report is also accompa	nied by ANNEXES, basis for this report on 607 of the Adminis	i.e. sheets o	of the descrip	tion, claims and/or drawi rectifications made befo r the PCT).	ngs which have re this Authority	
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з. т	his ı	repoi	t contains indications re	elating to the following	a items:				
ł			Basis of the opinion						
П			Priority						
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1\	/		Lack of unity of invent		,,	· · · · · · · · · · · · · · · · · · ·	and modernal applicabili	ıy	
V		×	Reasoned statement u	under Rule 66.2(a)(ii) ions supporting such	with regard	l to novelty, i	nventive step or industria	al applicability;	
V	1		Certain documents cit	ed					
V	II I		Certain defects in the						
. V	111		Certain observations of	on the international ap	pplication				
Date of s	subm	issio	n of the demand		Date of c	completion of the	his report		
25.03.2	25.03.2004			08.11.2	2004	·			
Name an	Name and mailing address of the international preliminary examining authority:				Authorize	ed Officer			
<u> </u>	<u>)</u>	Euro D-80 Tel.	inig addioffly: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 52365 : +49 89 2399 - 4465	56 epmu d	Wagne	r, R ne No. +49 89 :	2399-7357	September Permanent	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/10092

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	Description, Pages						
	1-2	25	as originally filed					
,.	, Cla	Claims, Numbers						
	1-1	6	as originally filed					
	Dra	awings, Sheets						
	1/5	-5/5	as originally filed					
2.	Wit lan	lage, all the elements marked above were available or furnished to this Authority in the iternational application was filed, unless otherwise indicated under this item.						
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:					
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	olication of the international application (under Rule 48.3(b)).					
			anslation furnished for the purposes of international proliminant examination (under					
 With regard to any nucleotide and/or amino acid sequence disclosed in the international appli international preliminary examination was carried out on the basis of the sequence listing: 								
		contained in the inte	ernational application in written form.					
			e international application in computer readable form.					
	\boxtimes	furnished subsequently to this Authority in written form.						
	\boxtimes							
	×	The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
	⊠	The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
The amendments have resulted in the cancellation of:								
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5	5. 🗆	This report has been establi been considered to go beyo	ished a	as if (some of disclosure a	the amendments had not been made, since they have s filed (Rule 70.2(c)).	
		(Any replacement sheet con report.)	ntaining	g such amend	dments must be referred to under item 1 and annexed to this	
6	. Ad	ditional observations, if neces	sary:			
11	i. No	n-establishment of opinion	with r	egard to nov	rolty inventive stem and to the second	
	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
.,.	1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:					
\Box the entire international application,						
	\boxtimes	claims Nos. 9-12				
because:						
the said international application, or the said claims Nos. 9-12 (IA) relate to the following subject matter which does not require an international preliminary examination (specify):					ims Nos. 9-12 (IA) relate to the following subject matter ary examination (specify):	
	see separate sheet				•	
		the description, claims or dra that no meaningful opinion co	wings ould be	(indicate pare formed (spe	ticular elements below) or said claims Nos. are so unclear	
		the claims, or said claims No could be formed.	s. are	so inadequat	ely supported by the description that no meaningful opinion	
	Ģ	no international search report	t has b	een establish	ned for the said claims Nos.	
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative					
	☐ the written form has not been furnished or does not comply with the Standard.					
					ed or does not comply with the Standard.	
٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.		tement				
	Nove	elty (N)	Yes: No:	Claims Claims	1-16	
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-16	
	Indus	strial applicability (IA)	Yes: No:	Claims Claims	1-8,13-16	

2. Citations and explanations

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see separate sheet

Re Item I

The claims are not numbered correctly after claim 12. The present written opinion refers to the claims as if they were numbered correctly from 1 to 16.

The sequence listing filed on 09.10.03 according to the required specifications was filed after the filing date and is therefore not considered as being part of the description (Rule 13^{ter}.1 (f) PCT).

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. Claims 9-12 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

Reference is made to the following document:

D1: Takaomi C. Saido et al., Neuroscience Letters 215 (1996), 173-176

2. The subject-matter of claim 1 is directed to a monoclonal antibody specifically recognizing Aβ11-x peptides, which is further specified in claim 2 as recognising the sequences EVHHQ (Seq. Id. No. 1), EVHHQKJ (Seq.Id. No. 2) in humans or related sequences in the mouse (Seq. Id. Nos 3 and 4). The monoclonal antibody is new (Article 33(2) PCT). D1 discloses on page 173, that polyclonal antibodies. which are specific for A\beta11-x can be produced by immunizing rabbits with the synthetic peptide pEVHHQK-c. The only difference between the disclosure of D1 and the present antibodies lies in the fact that the present antibody is monoclonal. As the methods for producing monoclonal antibodies are well-known in the art, the

subject-matter of claims 1 and 2 does not involve an inventive step (Article 33(3) PCT). The additional features of dependent claims 3, 4 relating to the labeling of antibodies, of dependent claim 5 relating to the immobilisation on a carrier are well-known in the field and do not confer an inventive step on the antibody. Dependent claim 6 specifies two antibodies which are expressed by deposited hybridoma cell lines. The additional feature of being expressed by a defined hybridoma cell line does not confer an inventive step (Article 33(3) PCT) on the antibody of claim 6. The hybridomas (claim 7) producing the non-inventive antibodies do not involve an inventive step either.

- 3. The methods for detecting Aβ11-x using the non-inventive antibodies (claims 8-13) and the kit and composition comprising said antibodies (claims 15, 16) do not appear to involve an inventive step (Article 33(3) PCT).
- Regarding claim 12 the application has not disclosed any data supporting the 4. alleged technical effect (i.e.the diagnosis of a beta-amyloid related disease) on which the evaluaton of the presence or absence of an inventive step could be based. Therefore the subject-matter of claim 14 cannot be considered to involve an inventive step (Article 33(3) PCT).

FURTHER REMARKS:

For the assessment of the present claims 9-12 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO does not not recognize as industrially applicable methods comprising a surgical step.